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February 1961

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JOINT PHOTOGRAPHIC INTELLIGENCE REPORT

# ATOMIC ENERGY COMPLEX

## NOVOSIBIRSK, USSR



ARMY

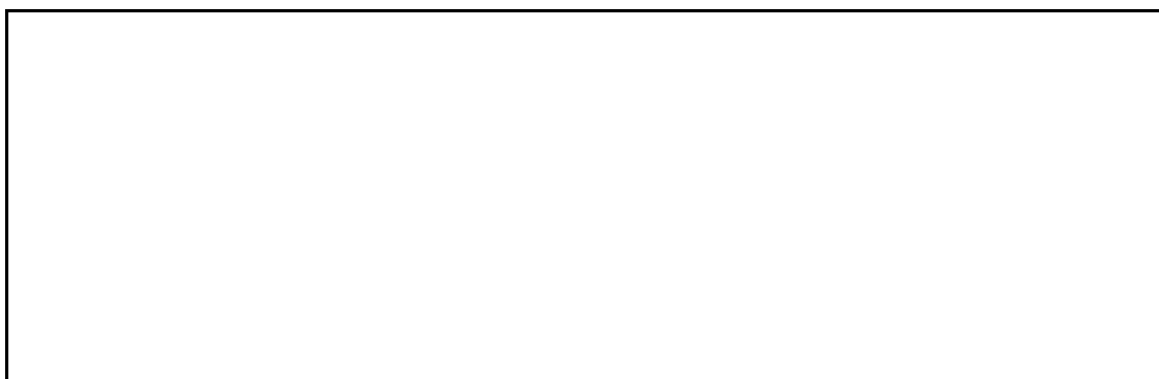


NAVY

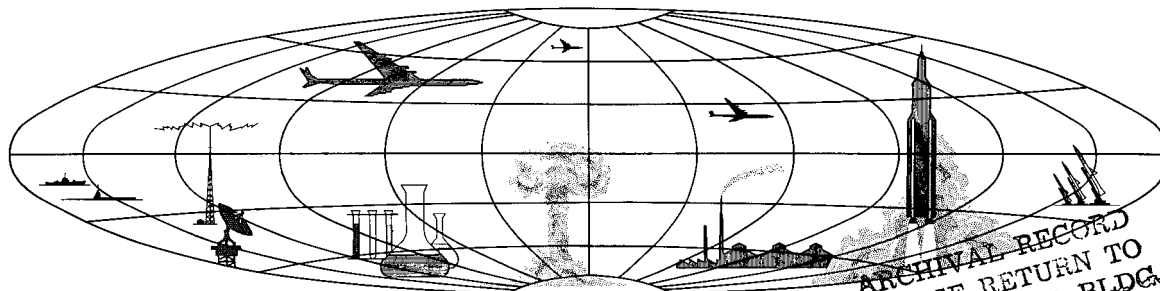


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## PREFACE

This joint photographic intelligence report has been prepared by the Army, Navy, and Central Intelligence Agency in response to CIA requirement PIC/OSI/R-41/60, calling for a detailed description of the changes which have taken place in the Novosibirsk Uranium Metallurgical Plant since

The report is based on a comparison of satellite photography with aerial photography of as interpreted in CIA/HTA/JR-5/58.

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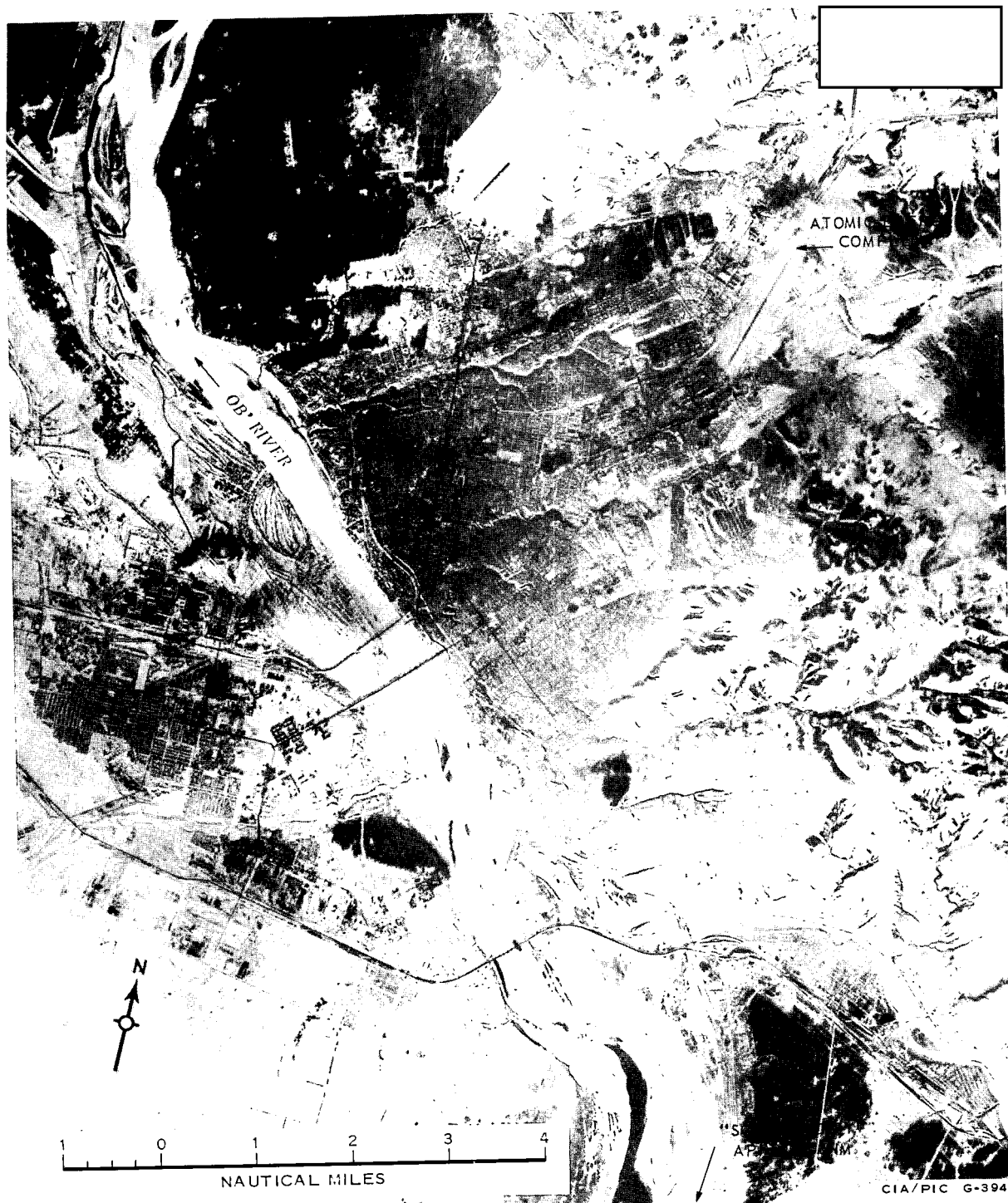


FIGURE 1. NOVOSIBIRSK, USSR. Note that the area is covered by a heavy accumulation of snow at the time of photography.

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## INTRODUCTION

On the northern outskirts of Novosibirsk, 110 nautical miles (nm) southwest of Tomsk, is a large atomic energy (feed materials) complex. This complex was previously covered by excellent quality [ ] photography and a joint photographic intelligence report 1/ was prepared describing the entire complex in some detail. With the acquisition of satellite photography of [ ] it is now possible to update the information presented in that report.

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The scale of the satellite photography is roughly one-eighth the scale of the [ ] aerial photographs. This fact precludes the possibility of precise measurements and detailed descriptions on the new material, but several changes in the facilities can be identified along with indications of continued activity.

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## GENERAL DESCRIPTION OF COMPLEX

The complex has been described 1/ as a feed materials complex engaged in the refining of uranium ore concentrates, the production of uranium metal from the concentrates, the fabrication of the metal into slugs, and the packaging and shipping of the slugs for reactor use. It consists of two areas -- a uranium metal plant and an adjacent area referred to as the Steam and Power Plant Area. Housing areas lie to the northwest and southwest of the complex, [ ]

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[ ] In addition there are a number of possibly-associated facilities to the west and north of the complex. They include forced labor camps, an unidentified industry, and several large storage areas.

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## CHANGES NOTED

A study of the satellite photography (see Figure 1) has revealed a number of additions and changes in the feed materials complex and in some of the adjacent facilities which may be related to it. These additions and changes are depicted in Figure 2 and are described in the table below.

25X1D Facilities Added or Changed Since [ ] Coverage

Item No	Description	Approx Dimensions (ft)
1	Fenced, monitor-roofed building similar to building 1-a just east of it (previously described as probable maintenance building)	460 x 165
2	Partially-fenced building, possibly monitor-roofed; possibly associated with support or storage facilities in the area	320 x 160
3	Building similar in appearance to buildings 3-a and 3-b (previously described as probable fire stations)	130 x 110
4	Cooling tower previously u/c, now in operation, and another added just east of it	base dia - 85
5	Probable ore-processing plant previously u/c, now operating	[ ]
6	Cooling tower [ ]	dia: base - 125 [ ]
7	Two u/i structures added within a fenced area	Undetermined
8	Fifteen housing units added	90 x 50 each
9	L-shaped building added	base - 275 x 125 leg - 160 x 90
10	Two possible buildings added	a - Undetermined b - 300 x 55

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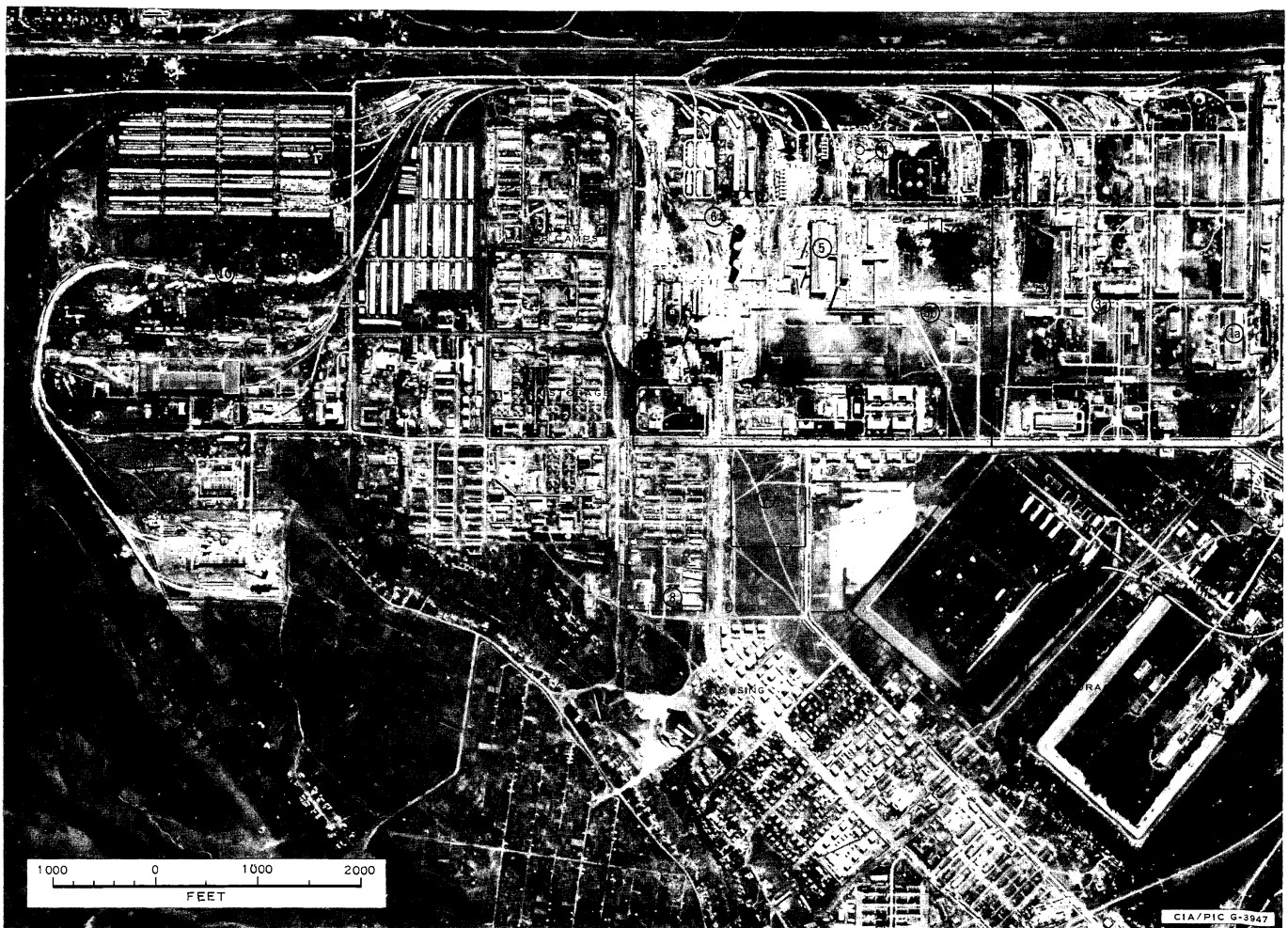


FIGURE 2. NOVOSIBIRSK ATOMIC ENERGY COMPLEX AND ADJACENT FACILITIES. (Photography is from [ ] mission). Changes or additions seen on [ ] photography are shown in red.

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### CONCLUSIONS

1. With the addition and/or completion of a number of facilities within the Uranium Metal Plant and the Steam and Power Plant Area and also the construction of 15 additional housing units, the feed materials complex at Novosibirsk appears to be complete.

2. The considerable amount of steam and smoke emitted from cooling towers and stacks and the removal of snow from all the major roads indicate that the complex was probably in full operation at the time of the [redacted] photography.

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4. With regard to electric power, there is no evidence of high-voltage transmission lines leading from the on-site power plant to off-site suppliers or consumers on either the [redacted] photography.

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REFERENCES

PHOTOGRAPHY

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MAPS OR CHARTS

SAC. US Target Complex Chart - Series 100, 0162-9998-100A (PROV),  
4th ed, Sep 58, 1:100,000 (S)

ACIC. US Air Target Chart - Series 200, 0162-10A, 1st ed, Jun 59,  
1:200,000 (S)

DOCUMENTS

1. CIA. HTA/JR-5/58, Atomic Energy Feed Materials Complex, No-  
vosibirsk, USSR, 25 Jul 58

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